```
Date, Time, Name, Type, Status
"4/19/2003","11:20:35","Robert ","Payment Received","Uncleared"
"4/17/2003","14:30:26","Tanya","Payment Received","Completed"
"4/16/2003","6:38:28","Mark ","Payment Received","Completed"
"4/14/2003","19:54:34","Igor","Payment Received","Completed"
"4/12/2003","16:41:08","artem ","Payment Received","Completed"
```

Fig. 1

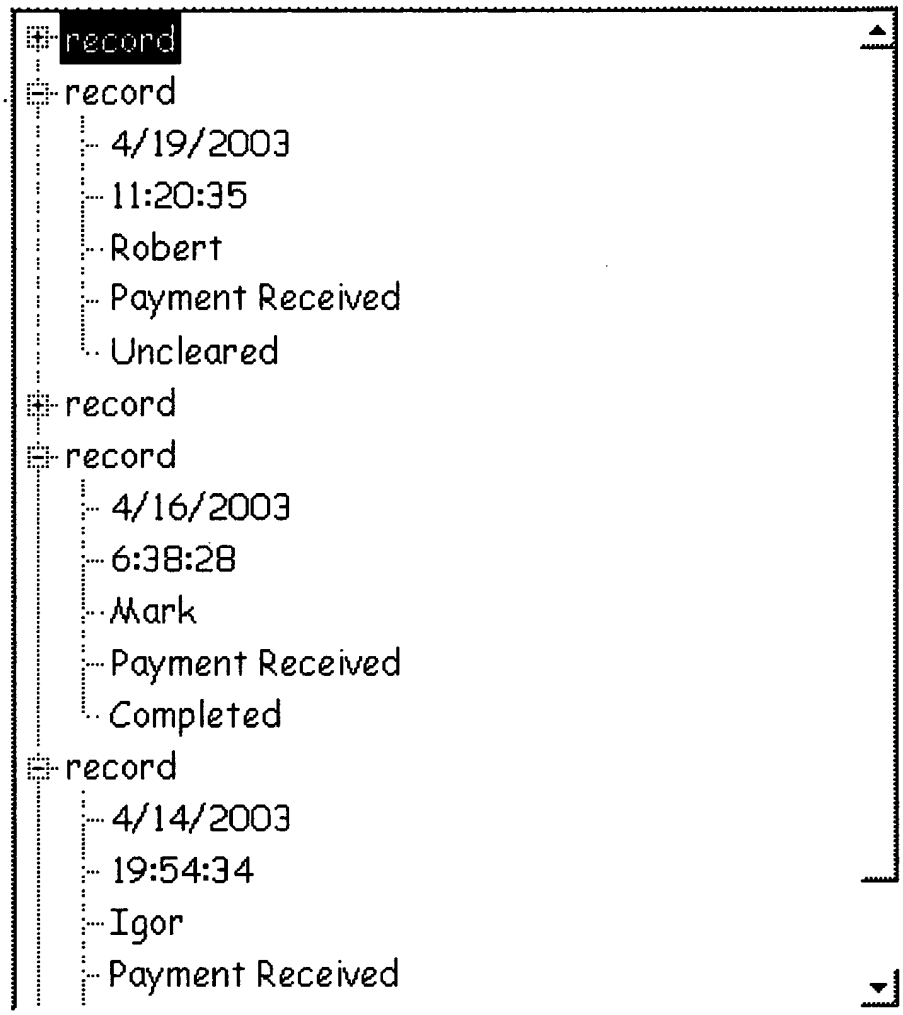

record
record
4/19/2003
11:20:35
Robert
Payment Received
Uncleared
record
record
4/16/2003
6:38:28
Mark
Payment Received
Completed
record
4/14/2003
19:54:34
Igor
Payment Received

Fig. 2

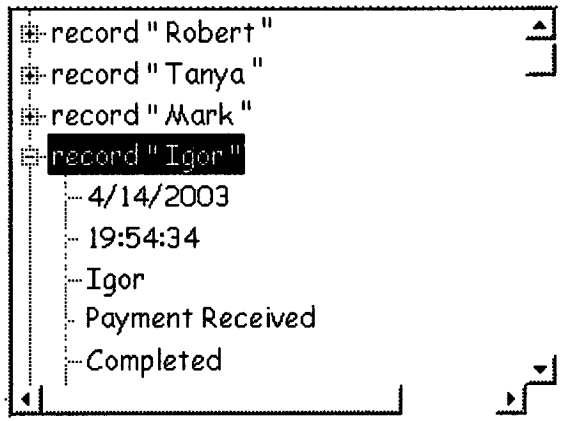
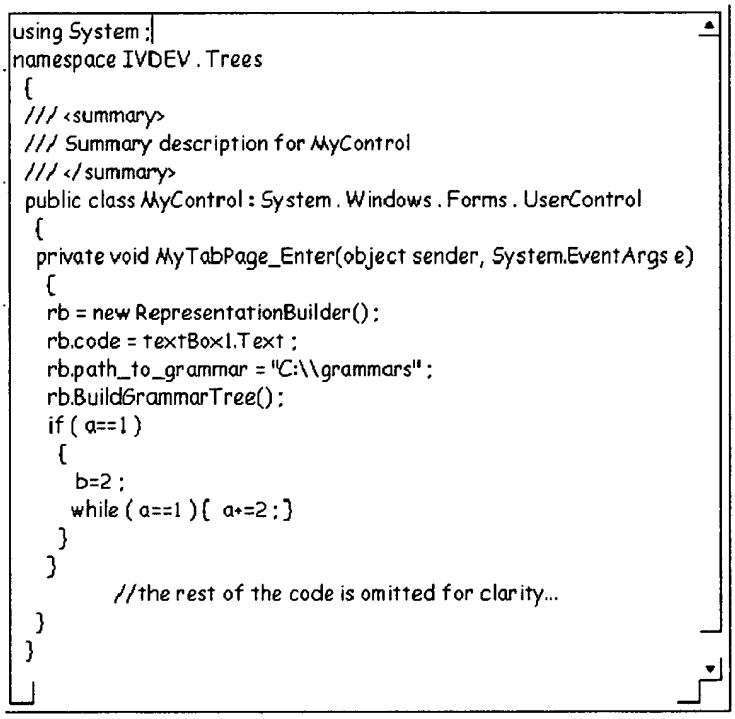

record "Robert"
record "Tanya"
record "Mark"
record "Igor"
4/14/2003
19:54:34
Igor
Payment Received
Completed

Fig. 3



```
using System ;
namespace IVDEV . Trees
 {
 /// <summary>
 /// Summary description for MyControl
 /// </summary>
 public class MyControl : System . Windows . Forms . UserControl
  {
  private void MyTabPage_Enter(object sender, System.EventArgs e)
   {
   rb = new RepresentationBuilder() ;
   rb.code = textBox1.Text ;
   rb.path_to_grammar = "C:\\grammars" ;
   rb.BuildGrammarTree() ;
   if ( a==1 )
    {
      b=2 ;
     while ( a==1 ){ a+=2 ;}
    }
   }
          //the rest of the code is omitted for clarity...
 }
}
```

Fig. 4

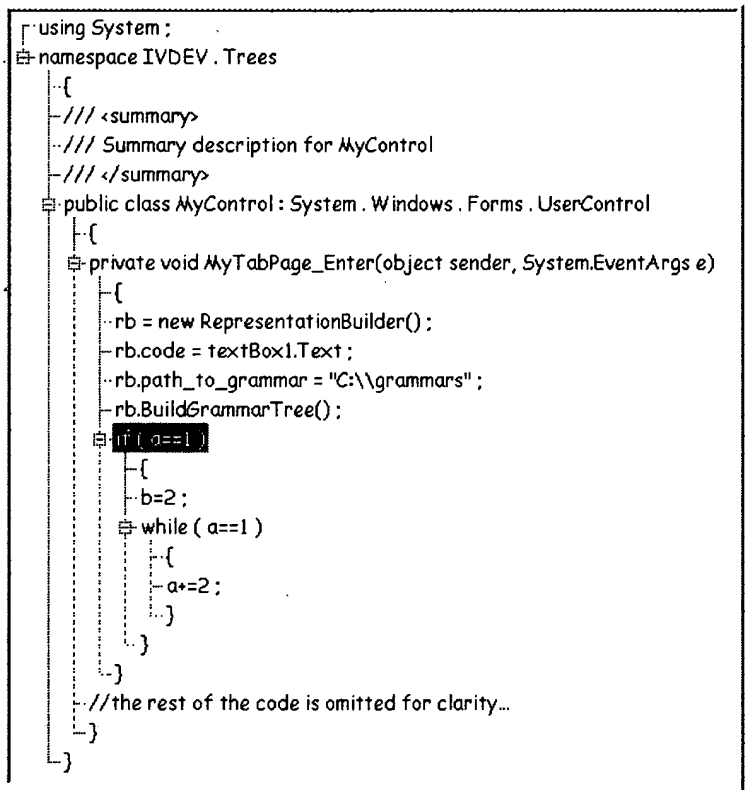

using System ;
namespace IVDEV . Trees
{
/// <summary>
/// Summary description for MyControl
/// </summary>
public class MyControl : System . Windows . Forms . UserControl
{
private void MyTabPage_Enter(object sender, System.EventArgs e)
{
rb = new RepresentationBuilder() ;
rb.code = textBox1.Text ;
rb.path_to_grammar = "C:\\grammars" ;
rb.BuildGrammarTree() ;
if (a==1)
{
b=2 ;
while (a==1)
{
a+=2 ;
}
}
}
//the rest of the code is omitted for clarity...
}
}

Fig. 5

```
<?php

echo "Example statement\n";

if($a == 1)
{
echo "value in a is 1\n";
}

function foo ($arg_1, $arg_2, ..., $arg_n)
{
   echo "Example function.\n";
   return $retval;
}


?>
```

Fig. 6

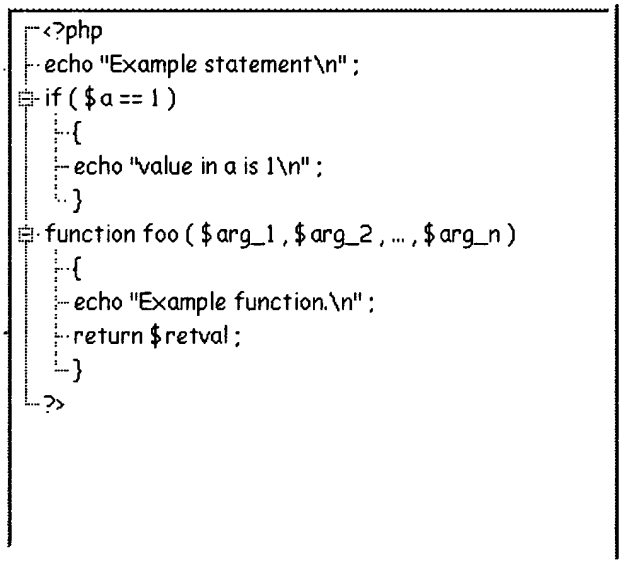

<?php
echo "Example statement\n" ;
if ($a == 1)
{
echo "value in a is 1\n" ;
}
function foo ($arg_1 , $arg_2 , ... , $arg_n)
{
echo "Example function.\n" ;
return $retval ;
}
?>

Fig. 7

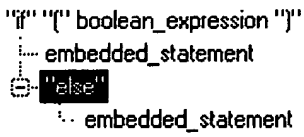

"if" "(" boolean_expression ")"
embedded_statement
"else"
embedded_statement

Fig. 8

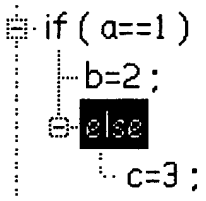


Fig. 9

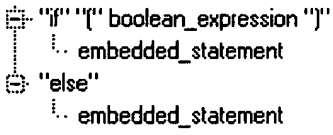

"if" "(" boolean_expression ")"
embedded_statement
"else"
embedded_statement

Fig. 10

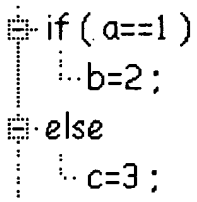


Fig. 11

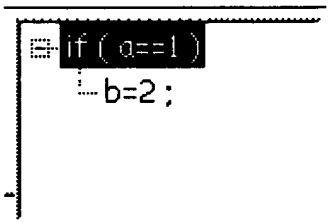


Fig. 12

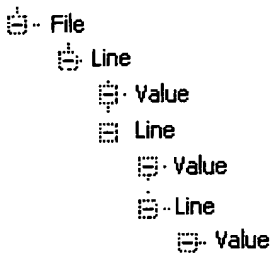


Fig. 13

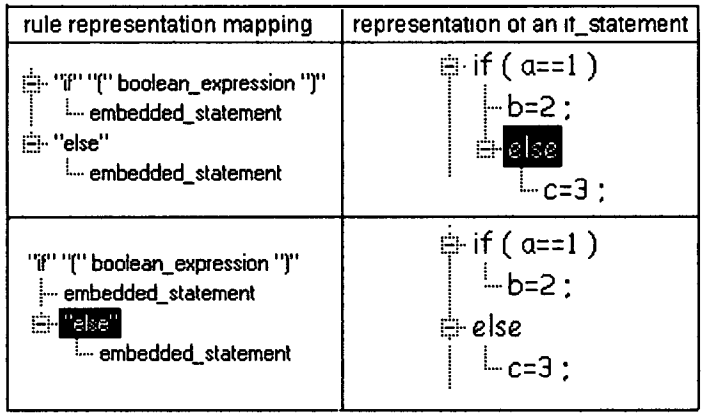

rule representation mapping
representation of an if_statement
"if" "(" boolean_expression ")"
embedded_statement
"else"
embedded_statement
if (a==1)
b=2 ;
else
c=3 ;
"if" "(" boolean_expression ")"
embedded_statement
"else"
embedded_statement
if (a==1)
b=2 ;
else
c=3 ;

Fig. 14